

# Notice of Allowability

Application No.

09/780,558

Examiner

Helen B Rossoshek

Applicant(s)

HATHAWAY ET AL.

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment filed 02/23/2004.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ The drawings filed on 02/23/2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892).
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948).
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_.
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material.
5. ☐ Notice of Informal Patent Application (PTO-152).
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 5/10/2004, 5/13/200.
7. ☒ Examiner's Amendment/Comment.
8. ☐ Examiner's Statement of Reasons for Allowance.
9. ☐ Other \_\_\_\_\_.

### DETAILED ACTION

1. This office action is in response to the Application 09/780,558 filed 02/09/2001 and amendment filed 02/23/2004.

2. Claims 1-22 pending in the Application.

3. Applicant's amendment has been fully considered. Examiner finds them persuasive.

### EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

5. Authorization for this examiner's amendment was given in a telephone interview with Mr. Frederick Cooperrider (Registration No. 36,769) and Mr. David Hathaway on 05/10/2004.

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### To Claims

6. Change Claims as follows:

**Claim 1** line 5 after "path" delete ";" insert --, said composite graph further comprising at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies;—

**Claim 2** line 2 after "network" delete "composed of" insert —comprising—

*VS* **Claim 2** line <sup>3</sup>~~4~~ after "graph" insert —and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies,—

**Claim 3** line 1 after "network" delete "is composed of" insert --comprises--

**Claim 3** line 5 after "signal" delete "," insert --;

**Claim 3** line 6 after "signal" delete "," insert --;

**Claim 9** line 2 after "network" delete "composed of" insert --comprising--

**Claim 9** line 14 after " $0 \leq i < K$ " delete "," insert --wherein a copy<sub>0</sub> of said composite timing graph comprises a copy of said original timing graph with zero defects;--

**Claim 10** line 3 after "signal" delete "," insert --;

**Claim 10** line 4 after "signal" delete "," insert --;

**Claim 11** line 2 after "network" delete "composed of" insert --comprising--

**Claim 11** line 8 after "array" insert --, said static timing analysis including at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies--

**Claim 12** line 1 after "network" delete "is composed of" insert --comprises--

**Claim 13** line 2 after "network" delete "composed of" insert --comprising--

**Claim 13** line 5 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies--

**Claim 14** line 2 after "network" delete "composed of" insert --comprising--

**Claim 14** line 5 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies--

**Claim 15** line 2 after "network" delete "composed of" insert --comprising--

**Claim 15** line 5 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies—

**Claim 16** line 2 after "network" delete "composed of" insert --comprising--

**Claim 16** line 5 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies—

**Claim 17** line 2 after "network" delete "composed of" insert --comprising--

**Claim 17** line 7 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies—

**Claim 18** line 3 after "network" delete "composed of" insert --comprising--

**Claim 18** line 4 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies—

**Claim 19** line 2 after "network" delete "composed of" insert --comprising--

**Claim 19** line 4 after "graph" insert --and at least one edge connecting at least one node in one of said copies to at least one node in another one of said copies—

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The following is an examiner's statement of reasons for allowance: the prior art of record does not teach generating a composite graph by making copies of an original graph as many as a predetermines maximum number of defects plus 1 and original graph represents the network with no defects, wherein the composite graph comprises at least one edge connecting at least one node in one of the copies to at least one node in another one of the copies as claimed.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

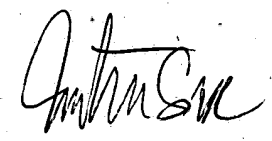
**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen B Rossoshek whose telephone number is 571-272-1905. The examiner can normally be reached on 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HR

  
**VUTHE SIEK**  
**PRIMARY EXAMINER**